

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AsC: Ashe-----	100	Not Rated Not Rated; Fragments > 75mm		Not Rated Not Rated; Fragments > 75mm		Not Rated Not Rated; Surface Fragments > 75mm	
		Slope	0.63	Depth to hard bedrock	1.00	Not Rated; Sieve size, 3 to 10", > 10"	
		Frost action	0.50	Cutbanks cave	1.00	Slope	0.63
		Depth to hard bedrock	0.46	Slope	0.63	Depth to bedrock	0.46
						Droughty	0.04
AsD: Ashe-----	100	Not Rated Not Rated; Fragments > 75mm		Not Rated Not Rated; Fragments > 75mm		Not Rated Not Rated; Surface Fragments > 75mm	
		Slope	1.00	Depth to hard bedrock	1.00	Not Rated; Sieve size, 3 to 10", > 10"	
		Frost action	0.50	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Cutbanks cave	1.00	Depth to bedrock	0.46
						Droughty	0.04
BdB: Beltsville-----	100	Very limited Frost action	1.00	Very limited Cutbanks cave	1.00	Somewhat limited Depth to saturated zone	0.19
		Low strength	0.22	Depth to saturated zone	1.00		
		Depth to saturated zone	0.19				
BeB: Beltsville-----	40	Very limited Frost action	1.00	Very limited Cutbanks cave	1.00	Somewhat limited Depth to saturated zone	0.19
		Low strength	0.22	Depth to saturated zone	1.00		
		Depth to saturated zone	0.19				
Urban Land-----	40	Not rated		Not rated		Not rated	

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Bg: Bibb-----	100	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 0.80	Very limited Flooding Depth to saturated zone	1.00 1.00
BnB: Bourne-----	100	Not Rated Not Rated; LEP Not Rated; AASHTO GIN Depth to saturated zone	0.19	Very limited Depth to saturated zone Depth to dense layer Cutbanks cave	1.00 0.50 0.10	Somewhat limited Depth to saturated zone Droughty	0.19 0.16
BnC: Bourne-----	100	Not Rated Not Rated; LEP Not Rated; AASHTO GIN Slope Depth to saturated zone	0.63 0.19	Very limited Depth to saturated zone Slope Depth to dense layer Cutbanks cave	1.00 0.63 0.50 0.10	Somewhat limited Slope Depth to saturated zone Droughty	0.63 0.19 0.16
BpB: Bourne-----	40	Not Rated Not Rated; LEP Not Rated; AASHTO GIN Depth to saturated zone	0.19	Very limited Depth to saturated zone Depth to dense layer Cutbanks cave	1.00 0.50 0.10	Somewhat limited Depth to saturated zone Droughty	0.19 0.16
Urban Land-----	40	Not rated		Not rated		Not rated	
BrC: Brandywine-----	100	Not Rated Not Rated; Fragments > 75mm Slope	0.63	Not Rated Not Rated; Fragments > 75mm Cutbanks cave Slope	1.00 0.63	Not Rated Not Rated; Surface Fragments > 75mm Not Rated; Sieve size, 3 to 10", > 10" Slope	0.63

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
BrD: Brandywine-----	100	Not Rated Not Rated; Fragments > 75mm Slope	1.00	Not Rated Not Rated; Fragments > 75mm Slope Cutbanks cave	1.00 1.00	Not Rated Not Rated; Surface Fragments > 75mm Not Rated; Sieve size, 3 to 10", > 10" Slope	1.00
BtB: Brandywine-----	40	Not Rated Not Rated; Fragments > 75mm		Not Rated Not Rated; Fragments > 75mm Cutbanks cave	1.00	Not Rated Not Rated; Surface Fragments > 75mm Not Rated; Sieve size, 3 to 10", > 10"	
Urban Land-----	40	Not rated		Not rated		Not rated	
BtC: Brandywine-----	40	Not Rated Not Rated; Fragments > 75mm Slope	0.63	Not Rated Not Rated; Fragments > 75mm Cutbanks cave Slope	1.00 0.63	Not Rated Not Rated; Surface Fragments > 75mm Not Rated; Sieve size, 3 to 10", > 10" Slope	0.63
Urban Land-----	40	Not rated		Not rated		Not rated	
BtD: Brandywine-----	40	Not Rated Not Rated; Fragments > 75mm Slope	1.00	Not Rated Not Rated; Fragments > 75mm Slope Cutbanks cave	1.00 1.00	Not Rated Not Rated; Surface Fragments > 75mm Not Rated; Sieve size, 3 to 10", > 10" Slope	1.00

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Urban Land-----	40	Not rated		Not rated		Not rated	
CcB: Chillum-----	100	Very limited Frost action Low strength	1.00 1.00	Very limited Cutbanks cave	1.00	Not limited	
CcC: Chillum-----	100	Very limited Frost action Low strength Slope	1.00 1.00 0.63	Very limited Cutbanks cave Slope	1.00 0.63	Somewhat limited Slope	0.63
CcD: Chillum-----	100	Very limited Slope Frost action Low strength	1.00 1.00 1.00	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope	1.00
CdB: Chillum-----	40	Very limited Frost action Low strength	1.00 1.00	Very limited Cutbanks cave	1.00	Not limited	
Urban Land-----	40	Not rated		Not rated		Not rated	
CdC: Chillum-----	40	Very limited Frost action Low strength Slope	1.00 1.00 0.63	Very limited Cutbanks cave Slope	1.00 0.63	Somewhat limited Slope	0.63
Urban Land-----	40	Not rated		Not rated		Not rated	
CdD: Chillum-----	40	Very limited Slope Frost action Low strength	1.00 1.00 1.00	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope	1.00

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Urban Land-----	40	Not rated		Not rated		Not rated	
CeB: Christiana-----	100	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Too clayey Cutbanks cave	0.64 0.10	Not limited	
CeC: Christiana-----	100	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Too clayey Slope Cutbanks cave	0.64 0.63 0.10	Somewhat limited Slope	0.63
CeD: Christiana-----	100	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Too clayey Cutbanks cave	1.00 0.64 0.10	Very limited Slope	1.00
CfB: Christiana-----	40	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Too clayey Cutbanks cave	0.64 0.10	Not limited	
Urban Land-----	40	Not rated		Not rated		Not rated	
CfC: Christiana-----	40	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Too clayey Slope Cutbanks cave	0.64 0.63 0.10	Somewhat limited Slope	0.63
Urban Land-----	40	Not rated		Not rated		Not rated	

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CfD: Christiana-----	40	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Too clayey Cutbanks cave	1.00 0.64 0.10	Very limited Slope	1.00
Urban Land-----	40	Not rated		Not rated		Not rated	
Ck: Codorus-----	95	Very limited Frost action Flooding Depth to saturated zone	1.00 1.00 0.75	Very limited Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 0.60	Somewhat limited Depth to saturated zone Flooding	0.75 0.60
Cn: Codorus-----	40	Very limited Frost action Flooding Depth to saturated zone	1.00 1.00 0.75	Very limited Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 0.60	Somewhat limited Depth to saturated zone Flooding	0.75 0.60
Urban Land-----	40	Not rated		Not rated		Not rated	
CwB: Croom-----	100	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Very limited Gravel content Droughty	1.00 0.34
CwC: Croom-----	100	Somewhat limited Slope Frost action	0.63 0.50	Very limited Cutbanks cave Slope	1.00 0.63	Very limited Gravel content Slope Droughty	1.00 0.63 0.34
CwD: Croom-----	100	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope Gravel content Droughty	1.00 1.00 0.34
CxB: Croom-----	40	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Very limited Gravel content Droughty	1.00 0.34

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Urban Land-----	40	Not rated		Not rated		Not rated	
CxC: Croom-----	40	Somewhat limited Slope Frost action	0.63 0.50	Very limited Cutbanks cave Slope	1.00 0.63	Very limited Gravel content Slope Droughty	1.00 0.63 0.34
Urban Land-----	40	Not rated		Not rated		Not rated	
CxD: Croom-----	40	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope Gravel content Droughty	1.00 1.00 0.34
Urban Land-----	40	Not rated		Not rated		Not rated	
Dn: Dunning-----	100	Very limited Depth to saturated zone Flooding Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding Too clayey Cutbanks cave	1.00 0.80 0.28 0.10	Very limited Flooding Depth to saturated zone	1.00 1.00
Fa: Fallsington-----	100	Very limited Depth to saturated zone Frost action	1.00 0.50	Very limited Depth to saturated zone Cutbanks cave	1.00 1.00	Very limited Depth to saturated zone	1.00
FB: Fluvaquents-----	100	Very limited Flooding Frost action	1.00 0.50	Somewhat limited Depth to saturated zone Flooding Cutbanks cave	0.95 0.80 0.10	Not Rated Not Rated; Taxonomic Great Group Flooding Droughty	1.00 0.02

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
FD: Fluvaquents-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Not Rated Not Rated; Surface Fragments > 75mm	
		Frost action	1.00	Flooding	0.80	Not Rated; Sieve size, 3 to 10", > 10"	
		Flooding	1.00	Cutbanks cave	0.10	Flooding Depth to saturated zone	1.00 1.00
						Droughty	0.02
FF: Fluvaquents-----	50	Very limited Flooding	1.00	Somewhat limited Depth to saturated zone	0.95	Not Rated Not Rated; Taxonomic Great Group	
		Frost action	0.50	Flooding Cutbanks cave	0.80 0.10	Flooding Droughty	1.00 0.02
Udifluvents-----	35	Very limited Flooding	1.00	Somewhat limited Depth to saturated zone	0.95	Not Rated Not Rated; Taxonomic Great Group	
		Frost action	0.50	Flooding Cutbanks cave	0.80 0.10	Flooding Droughty	1.00 0.02
FH: Fluvaquents-----	30	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Not Rated Not Rated; Surface Fragments > 75mm	
		Frost action	1.00	Flooding	0.80	Not Rated; Sieve size, 3 to 10", > 10"	
		Flooding	1.00	Cutbanks cave	0.10	Flooding Depth to saturated zone	1.00 1.00
						Droughty	0.02
Udifluvents-----	30	Very limited Flooding	1.00	Somewhat limited Depth to saturated zone	0.95	Not Rated Not Rated; Taxonomic Great Group	
		Frost action	0.50	Flooding Cutbanks cave	0.80 0.10	Flooding Droughty	1.00 0.02
Urban Land-----	20	Not rated		Not rated		Not rated	
GeB: Galestown-----	40	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.69

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Urban Land-----	40	Not rated		Not rated		Not rated	
GfB: Galestown-----	50	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.69
Rumford-----	35	Not limited		Very limited Cutbanks cave	1.00	Not limited	
GfC: Galestown-----	50	Somewhat limited Slope	0.63	Very limited Cutbanks cave Slope	1.00 0.63	Somewhat limited Droughty Slope	0.69 0.63
Rumford-----	35	Somewhat limited Slope	0.63	Very limited Cutbanks cave Slope	1.00 0.63	Somewhat limited Slope	0.63
GgB: Glenelg-----	100	Somewhat limited Low strength Frost action	0.78 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
GgC: Glenelg-----	100	Somewhat limited Low strength Slope Frost action	0.78 0.63 0.50	Somewhat limited Slope Cutbanks cave	0.63 0.10	Somewhat limited Slope	0.63
GgD: Glenelg-----	100	Very limited Slope Low strength Frost action	1.00 0.78 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
GhB: Glenelg-----	40	Somewhat limited Low strength Frost action	0.78 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Urban Land-----	40	Not rated		Not rated		Not rated	
GhC: Glenelg-----	40	Somewhat limited Low strength Slope Frost action	0.78 0.63 0.50	Somewhat limited Slope Cutbanks cave	0.63 0.10	Somewhat limited Slope	0.63

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Urban Land-----	40	Not rated		Not rated		Not rated	
GhD: Glenelg-----	40	Very limited Slope Low strength Frost action	1.00 0.78 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Urban Land-----	40	Not rated		Not rated		Not rated	
GlB: Glenelg Variant----	100	Very limited Frost action Depth to saturated zone	1.00 0.48	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.48
GmB: Glenelg Variant----	40	Very limited Frost action Depth to saturated zone	1.00 0.48	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.48
Urban Land-----	40	Not rated		Not rated		Not rated	
Ik: Iuka-----	85	Very limited Flooding Depth to saturated zone	1.00 0.19	Not Rated Not Rated; bulk density Depth to saturated zone Flooding Cutbanks cave	 1.00 0.60 0.10	Somewhat limited Flooding Depth to saturated zone	0.60 0.19
Ip: Iuka-----	40	Very limited Flooding Depth to saturated zone	1.00 0.19	Not Rated Not Rated; bulk density Depth to saturated zone Flooding Cutbanks cave	 1.00 0.60 0.10	Somewhat limited Flooding Depth to saturated zone	0.60 0.19

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Urban Land-----	40	Not rated		Not rated		Not rated	
JtB: Joppa-----	100	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Gravel content Droughty	0.50 0.17
JtC: Joppa-----	100	Somewhat limited Slope	0.63	Very limited Cutbanks cave Slope	1.00 0.63	Somewhat limited Slope Gravel content Droughty	0.63 0.50 0.17
JtD: Joppa-----	100	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope Gravel content Droughty	1.00 0.50 0.17
JuB: Joppa-----	40	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Gravel content Droughty	0.50 0.17
Urban Land-----	40	Not rated		Not rated		Not rated	
JuC: Joppa-----	40	Somewhat limited Slope	0.63	Very limited Cutbanks cave Slope	1.00 0.63	Somewhat limited Slope Gravel content Droughty	0.63 0.50 0.17
Urban Land-----	40	Not rated		Not rated		Not rated	
JuD: Joppa-----	40	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope Gravel content Droughty	1.00 0.50 0.17

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Urban Land-----	40	Not rated		Not rated		Not rated	
KeB: Keyport-----	100	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.99	Not limited	
		Low strength Shrink-swell	1.00 0.50	Cutbanks cave	0.10		
KeC: Keyport-----	100	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.99	Somewhat limited Slope	0.63
		Low strength Slope Shrink-swell	1.00 0.63 0.50	Slope Cutbanks cave	0.63 0.10		
KmB: Keyport-----	40	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.99	Not limited	
		Low strength Shrink-swell	1.00 0.50	Cutbanks cave	0.10		
Urban Land-----	40	Not rated		Not rated		Not rated	
KmC: Keyport-----	40	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.99	Somewhat limited Slope	0.63
		Low strength Slope Shrink-swell	1.00 0.63 0.50	Slope Cutbanks cave	0.63 0.10		
Urban Land-----	40	Not rated		Not rated		Not rated	

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ld: Lindside-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Flooding	0.60
		Flooding	1.00	Flooding	0.60	Depth to saturated zone	0.03
		Low strength Depth to saturated zone	1.00 0.03	Cutbanks cave	0.10		
Lp: Lindside-----	100	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00
		Flooding	1.00	Flooding	0.80	Depth to saturated zone	0.03
		Depth to saturated zone	0.03	Depth to hard bedrock	0.42		
				Cutbanks cave	0.10		
MbC: Manor-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Frost action	0.50	Cutbanks cave	0.10		
MbD: Manor-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10		
McC: Manor-----	100	Not Rated Not Rated; Fragments > 75mm		Not Rated Not Rated; Fragments > 75mm		Not Rated Not Rated; Surface Fragments > 75mm	
		Slope	0.63	Slope	0.63	Not Rated; Sieve size, 3 to 10", > 10"	
		Frost action	0.50	Cutbanks cave	0.10	Slope	0.63
MdB: Manor-----	40	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Urban Land-----	40	Not rated		Not rated		Not rated	
MdC: Manor-----	40	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Frost action	0.50	Cutbanks cave	0.10		

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Urban Land-----	40	Not rated		Not rated		Not rated	
MdD: Manor-----	40	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Urban Land-----	40	Not rated		Not rated		Not rated	
MgB: Matapeake-----	100	Very limited Low strength Frost action	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
MgC: Matapeake-----	100	Very limited Low strength Slope Frost action	1.00 0.63 0.50	Somewhat limited Slope Cutbanks cave	0.63 0.10	Somewhat limited Slope	0.63
MhB: Matapeake-----	40	Very limited Low strength Frost action	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Urban Land-----	40	Not rated		Not rated		Not rated	
Mp: Melvin-----	100	Very limited Depth to saturated zone Flooding Low strength	1.00 1.00 1.00	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Very limited Depth to saturated zone Flooding	1.00 0.60
MvB: Muirkirk Variant----	100	Not limited		Not Rated Not Rated; Clay percent Not Rated; bulk density Cutbanks cave	0.10	Not limited	

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
MvC: Muirkirk Variant----	100	Somewhat limited Slope	0.63	Not Rated Not Rated; Clay percent Not Rated; bulk density Slope Cutbanks cave	0.63 0.10	Somewhat limited Slope	0.63
MvD: Muirkirk Variant----	100	Very limited Slope	1.00	Not Rated Not Rated; Clay percent Not Rated; bulk density Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
NeC: Neshaminy-----	100	Somewhat limited Slope Frost action	0.63 0.50	Somewhat limited Slope Cutbanks cave	0.63 0.10	Somewhat limited Slope Content of large stones	0.63 0.01
NeD: Neshaminy-----	100	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope Content of large stones	1.00 0.01
NuC: Neshaminy-----	40	Somewhat limited Slope Frost action	0.63 0.50	Somewhat limited Slope Cutbanks cave	0.63 0.10	Somewhat limited Slope Content of large stones	0.63 0.01
Urban Land-----	40	Not rated		Not rated		Not rated	
NuD: Neshaminy-----	40	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope Content of large stones	1.00 0.01
Urban Land-----	40	Not rated		Not rated		Not rated	

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SaB: Sassafras-----	100	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
SaC: Sassafras-----	100	Somewhat limited Slope Frost action	0.63 0.50	Very limited Cutbanks cave Slope	1.00 0.63	Somewhat limited Slope	0.63
ScB: Sassafras-----	100	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Somewhat limited Gravel content Content of large stones	0.33 0.01
ScC: Sassafras-----	100	Somewhat limited Slope Frost action	0.63 0.50	Very limited Cutbanks cave Slope	1.00 0.63	Somewhat limited Slope Gravel content Content of large stones	0.63 0.33 0.01
ScD: Sassafras-----	100	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope Gravel content Content of large stones	1.00 0.33 0.01
SgB: Sassafras-----	40	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
Urban Land-----	40	Not rated		Not rated		Not rated	
SgC: Sassafras-----	40	Somewhat limited Slope Frost action	0.63 0.50	Very limited Cutbanks cave Slope	1.00 0.63	Somewhat limited Slope	0.63
Urban Land-----	40	Not rated		Not rated		Not rated	
SgD: Sassafras-----	40	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope	1.00

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Urban Land-----	40	Not rated		Not rated		Not rated	
SmB: Sunnyside-----	100	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
SmC: Sunnyside-----	100	Somewhat limited Slope Frost action	0.63 0.50	Very limited Cutbanks cave Slope	1.00 0.63	Somewhat limited Slope	0.63
SmD: Sunnyside-----	100	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope	1.00
SpB: Sunnyside-----	40	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
Urban Land-----	40	Not rated		Not rated		Not rated	
SpC: Sunnyside-----	40	Somewhat limited Slope Frost action	0.63 0.50	Very limited Cutbanks cave Slope	1.00 0.63	Somewhat limited Slope	0.63
Urban Land-----	40	Not rated		Not rated		Not rated	
SpD: Sunnyside-----	40	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope	1.00
Urban Land-----	40	Not rated		Not rated		Not rated	

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
U1: Udorthents-----	100	Not Rated Not Rated; LEP Not Rated; Fragments > 75mm Not Rated; AASHTO GIN		Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; Unified Not Rated; bulk density Not Rated; Taxonomic or texture class		Not Rated Not Rated; Surface clay percent Not Rated; Surface Fragments > 75mm Not Rated; Sieve size, 3 to 10", > 10" Not Rated; pH Not Rated; Taxonomic Great Group	
U2: Udorthents-----	100	Not Rated Not Rated; LEP Not Rated; Fragments > 75mm Not Rated; AASHTO GIN		Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; Unified Not Rated; bulk density Not Rated; Taxonomic or texture class		Not Rated Not Rated; Surface clay percent Not Rated; Surface Fragments > 75mm Not Rated; Sieve size, 3 to 10", > 10" Not Rated; pH Not Rated; Taxonomic Great Group	
U3: Udorthents-----	100	Not Rated Not Rated; LEP Not Rated; Fragments > 75mm Not Rated; AASHTO GIN Slope	0.04	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; Unified Not Rated; bulk density Not Rated; Taxonomic or texture class		Not Rated Not Rated; Surface clay percent Not Rated; Surface Fragments > 75mm Not Rated; Sieve size, 3 to 10", > 10" Not Rated; pH Not Rated; Taxonomic Great Group	

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
U4: Udorthents-----	100	Not Rated Not Rated; LEP Not Rated; Fragments > 75mm Not Rated; AASHTO GIN Slope	0.04	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; Unified Not Rated; bulk density Not Rated; Taxonomic or texture class		Not Rated Not Rated; Surface clay percent Not Rated; Surface Fragments > 75mm Not Rated; Sieve size, 3 to 10", > 10" Not Rated; pH Not Rated; Taxonomic Great Group	
U5: Udorthents-----	100	Not Rated Not Rated; LEP Not Rated; Fragments > 75mm Not Rated; AASHTO GIN Slope	0.04	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; Unified Not Rated; bulk density Not Rated; Taxonomic or texture class		Not Rated Not Rated; Surface clay percent Not Rated; Surface Fragments > 75mm Not Rated; Sieve size, 3 to 10", > 10" Not Rated; pH Not Rated; Taxonomic Great Group	
U6: Udorthents-----	100	Not Rated Not Rated; LEP Not Rated; Fragments > 75mm Not Rated; AASHTO GIN		Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; Unified Not Rated; bulk density Not Rated; Taxonomic or texture class		Not Rated Not Rated; Surface clay percent Not Rated; Surface Fragments > 75mm Not Rated; Sieve size, 3 to 10", > 10" Not Rated; pH Not Rated; Taxonomic Great Group	

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
U7: Udorthents-----	100	Not Rated Not Rated; LEP Not Rated; Fragments > 75mm Not Rated; AASHTO GIN		Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; Unified Not Rated; bulk density Not Rated; Taxonomic or texture class		Not Rated Not Rated; Surface clay percent Not Rated; Surface Fragments > 75mm Not Rated; Sieve size, 3 to 10", > 10" Not Rated; pH Not Rated; Taxonomic Great Group	
U8: Udorthents-----	100	Not Rated Not Rated; LEP Not Rated; Fragments > 75mm Not Rated; AASHTO GIN		Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; Unified Not Rated; bulk density Not Rated; Taxonomic or texture class		Not Rated Not Rated; Surface clay percent Not Rated; Surface Fragments > 75mm Not Rated; Sieve size, 3 to 10", > 10" Not Rated; pH Not Rated; Taxonomic Great Group	
U9: Udorthents-----	100	Not Rated Not Rated; LEP Not Rated; Fragments > 75mm Not Rated; AASHTO GIN		Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; Unified Not Rated; bulk density Not Rated; Taxonomic or texture class		Not Rated Not Rated; Surface clay percent Not Rated; Surface Fragments > 75mm Not Rated; Sieve size, 3 to 10", > 10" Not Rated; pH Not Rated; Taxonomic Great Group	

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
U10: Udorthents-----	100	Not Rated Not Rated; LEP Not Rated; Fragments > 75mm Not Rated; AASHTO GIN		Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; Unified Not Rated; bulk density Not Rated; Taxonomic or texture class		Not Rated Not Rated; Surface clay percent Not Rated; Surface Fragments > 75mm Not Rated; Sieve size, 3 to 10", > 10" Not Rated; pH Not Rated; Taxonomic Great Group	
U11B: Udorthents-----	100	Not Rated Not Rated; LEP Not Rated; Fragments > 75mm Not Rated; AASHTO GIN		Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; Unified Not Rated; bulk density Not Rated; Taxonomic or texture class		Not Rated Not Rated; Surface clay percent Not Rated; Surface Fragments > 75mm Not Rated; Sieve size, 3 to 10", > 10" Not Rated; pH Not Rated; Taxonomic Great Group	
U11C: Udorthents-----	100	Not Rated Not Rated; LEP Not Rated; Fragments > 75mm Not Rated; AASHTO GIN Slope	0.63	Not Rated Not Rated; Fragments > 75mm Not Rated; Clay percent Not Rated; Unified Not Rated; bulk density Not Rated; Taxonomic or texture class		Not Rated Not Rated; Surface clay percent Not Rated; Surface Fragments > 75mm Not Rated; Sieve size, 3 to 10", > 10" Not Rated; pH Not Rated; Taxonomic Great Group	

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
U11D: Udorthents-----	100	Not Rated Not Rated; LEP		Not Rated Not Rated; Fragments > 75mm		Not Rated Not Rated; Surface clay percent	
		Not Rated; Fragments > 75mm		Not Rated; Clay percent		Not Rated; Surface Fragments > 75mm	
		Not Rated; AASHTO GIN		Not Rated; Unified		Not Rated; Sieve size, 3 to 10", > 10"	
		Slope	1.00	Not Rated; bulk density		Not Rated; pH	
				Not Rated; Taxonomic or texture class		Not Rated; Taxonomic Great Group	
UA: Udifluvents-----	100	Very limited Flooding	1.00	Somewhat limited Depth to saturated zone	0.95	Not Rated Not Rated; Taxonomic Great Group	
		Frost action	0.50	Flooding	0.80	Flooding	1.00
				Cutbanks cave	0.10	Droughty	0.02
Ub: Urban Land-----	100	Not rated		Not rated		Not rated	
UcB: Urban Land-----	70	Not rated		Not rated		Not rated	
Beltsville-----	10	Very limited Frost action	1.00	Very limited Cutbanks cave	1.00	Somewhat limited Depth to saturated zone	0.19
		Low strength	0.22	Depth to saturated zone	1.00		
		Depth to saturated zone	0.19				
UdB: Urban Land-----	70	Not rated		Not rated		Not rated	

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Brandywine-----	10	Not Rated Not Rated; Fragments > 75mm		Not Rated Not Rated; Fragments > 75mm Cutbanks cave	1.00	Not Rated Not Rated; Surface Fragments > 75mm Not Rated; Sieve size, 3 to 10", > 10"	
UeB: Urban Land-----	70	Not rated		Not rated		Not rated	
Chillum-----	10	Very limited Frost action Low strength	1.00 1.00	Very limited Cutbanks cave	1.00	Not limited	
UeC: Urban Land-----	70	Not rated		Not rated		Not rated	
Chillum-----	10	Very limited Frost action Low strength Slope	1.00 1.00 0.63	Very limited Cutbanks cave Slope	1.00 0.63	Somewhat limited Slope	0.63
UfB: Urban Land-----	70	Not rated		Not rated		Not rated	
Christiana-----	5	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Too clayey Cutbanks cave	0.64 0.10	Not limited	
Christiana-----	5	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Too clayey Cutbanks cave	0.64 0.10	Not limited	
UfC: Urban Land-----	70	Not rated		Not rated		Not rated	

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Christiana-----	5	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Too clayey Slope Cutbanks cave	0.64 0.63 0.10	Somewhat limited Slope	0.63
Christiana-----	5	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Too clayey Slope Cutbanks cave	0.64 0.63 0.10	Somewhat limited Slope	0.63
UkC: Urban Land-----	70	Not rated		Not rated		Not rated	
Croom-----	15	Somewhat limited Slope Frost action	0.63 0.50	Very limited Cutbanks cave Slope	1.00 0.63	Very limited Gravel content Slope Droughty	1.00 0.63 0.34
UmB: Urban Land-----	70	Not rated		Not rated		Not rated	
Galestown-----	10	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.69
UoC: Urban Land-----	70	Not rated		Not rated		Not rated	
Joppa-----	10	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Gravel content Droughty	0.50 0.17
UpB: Urban Land-----	70	Not rated		Not rated		Not rated	

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Keyport-----	5	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.99	Not limited	
		Low strength Shrink-swell	1.00 0.50	Cutbanks cave	0.10		
Keyport-----	5	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.99	Not limited	
		Low strength Shrink-swell	1.00 0.50	Cutbanks cave	0.10		
UsB: Urban Land-----	70	Not rated		Not rated		Not rated	
Manor-----	5	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
UsC: Urban Land-----	70	Not rated		Not rated		Not rated	
Manor-----	5	Somewhat limited Slope Frost action	0.63 0.50	Somewhat limited Slope Cutbanks cave	0.63 0.10	Somewhat limited Slope	0.63
UxB: Urban Land-----	70	Not rated		Not rated		Not rated	
Sassafras-----	5	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
UxC: Urban Land-----	70	Not rated		Not rated		Not rated	
Sassafras-----	10	Somewhat limited Slope Frost action	0.63 0.50	Very limited Cutbanks cave Slope	1.00 0.63	Somewhat limited Slope	0.63

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
UyC: Urban Land-----	70	Not rated		Not rated		Not rated	
Sunnyside-----	10	Somewhat limited Slope Frost action	0.63 0.50	Very limited Cutbanks cave Slope	1.00 0.63	Somewhat limited Slope	0.63
UzB: Urban Land-----	70	Not rated		Not rated		Not rated	
Woodstown-----	15	Somewhat limited Frost action	0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 1.00	Not limited	
W: Water-----	100	Not Rated Not Rated; LEP Not Rated; Fragments > 75mm Not Rated; Slope Not Rated; AASHTO GIN		Not Rated Not Rated; Fragments > 75mm Not Rated; Slope Not Rated; Clay percent Not Rated; Unified Not Rated; bulk density		Not Rated Not Rated; Surface clay percent Not Rated; Slope Not Rated; Surface Fragments > 75mm Not Rated; Sieve size, 3 to 10", > 10" Not Rated; pH	
WoB: Woodstown-----	100	Somewhat limited Frost action	0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 1.00	Not limited	
WpB: Urban Land-----	40	Not rated		Not rated		Not rated	

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit					
Woodstown-----	40	Somewhat limited Frost action	0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 1.00	Not limited

